

HIGH PRESSURE CHEMISTRY REACTOR

ABSTRACT OF THE DISCLOSURE

5 Multiple parallel chemical reactions are performed under pressure in a reactor including a multi-row array of reaction vessels situated between a temperature control base and a fluid flow manifold. The manifold consists of an input portion connected to the fluid supply by a five-way valve and a distribution portion which includes separate parallel distribution channels, one
10 for each row of reaction vessels. A control valve for each distribution channel is interposed between the manifold portions such that the fluid flow to each row of reaction vessels can be independently controlled. An explosion proof transparent shield can be situated between the base and manifold, surrounding the reaction vessels. The interior of the shield can be flooded
15 with inert gas.